

CLAIMS

1. Stabilized solution of trans-1,2-dichloroethylene comprising, as additives, at least one acid acceptor, at least one radical scavenger, at least one Lewis base and at least one compound possessing a buffering effect.

2. Solution according to Claim 1, characterized in that the content of each additive in the stabilized solution is between 10 and 10 000 ppm, preferably between 10 and 1 000 ppm.

3. Solution according to Claim 1 or 2, characterized in that the overall content of additives is less than 50 000 ppm, preferably less than 5 000 ppm.

4. Solution according to any one of the preceding claims, characterized in that it comprises from 200 ppm to 800 ppm of an acid acceptor, from 100 to 700 ppm of a radical scavenger or of a mixture of radical scavengers, from 10 to 100 ppm of a Lewis base and from 10 to 50 ppm of a compound possessing a buffering effect.

5. Solution according to any one of the preceding claims, characterized in that the acid acceptor is an organic epoxide, preferably propylene oxide, butylene oxide or isopropyl glycidyl ether.

6. Solution according to any one of the preceding claims, characterized in that the radical scavenger is an alkene, a heterocycle or a phenol derivative.

7. Solution according to Claim 6, characterized in that the alkene is diisobutylene, amylene, isoprene or α -methylstyrene.

8. Solution according to Claim 6, characterized in that the heterocycle is N-methylpyrrole, 1,4-dioxane or tetrahydrofuran.

9. Solution according to Claim 6, characterized in that the phenol derivative is phenol, thymol or ionol.

10. Solution according to any one of the preceding claims, characterized in that the Lewis base is an acetal, a ketone, a nitro compound, an ester of a carboxylic acid or an ether.

11. Solution according to Claim 10, characterized in that the acetal is methylal.

12. Solution according to Claim 10, characterized in that the ketone is acetone or methyl ethyl ketone.

13. Solution according to Claim 10, characterized in that the nitro compound is nitromethane or nitroethane.

14. Solution according to Claim 10, characterized in that the ester of a carboxylic acid is methyl formate, methyl acetate or isopropyl acetate.

5 15. Solution according to Claim 10, characterized in that the ether is tert-butyl methyl ether.

16. Solution according to any one of the preceding claims, characterized in that the compound possessing a buffering effect is an amine.

10 17. Solution according to Claim 16, characterized in that the amine is triethylamine, N-methylmorpholine, diethylamine or N,N-diisopropylamine.

18. Solution according to one of Claims 1 to 4, characterized in that it comprises butylene oxide, diisobutylene, isoprene, acetone and diethylamine.

15 19. Solution according to Claim 18, characterized in that it comprises from 200 to 800 ppm of butylene oxide, from 100 to 500 ppm of diisobutylene, from 50 to 200 ppm of isoprene, from 10 to 100 ppm of acetone and from 10 to 50 ppm of diethylamine.